The Chemical Age

Volume Index to XLII.

January to June, 1940.

A.B.C.M. Parliamentary Index, 259 Acetic Anhydride Process, New, 213 Advisory Council on Scientific Re-search, 85 Aeroplane Dopes, Composition of, 258

258
Air-borne Infection, Combating, 250
Aikali Activation of Carbonised
Fuel, 335
Alleged Wrongful Dismissal, 143
American Chemicals for India, 37
American Resin, New, 269
American Rubber Products, New, 20
Ammonium Nitrate, 50
Amylodextrin, Sugar-Free, 302
Anglo-French Trade Talks, 102
Anhydrous Aluminium Bromide, 347
Animal Fibres, The Properties of, 184

184 Anti-Freezing Grease, 185 Apatite, Russian, for Germany, 259 Arc Welding for Maintenance in Chemical Works, Robert Butler, 77 Arsenic Salts for Preserving Wood, 347

Asbestos Roofs, 284 Atomic Hydrogen, Suggested Use for, 334.

AUTHORS-

Blacktin, Samuel Cyril To Stop Silicosis, 97; Butcher, C. H., Modern Trends in Laboratory Planning, 243; Butler, Robert, Are Welding for Maintenance in Chemical Works, 77 Collingridge, George S., Sul-phonated Oils and Fatty Alco-phonated Oils and Fatty Alco-from Works Safety John, Notes from Works Safety John, Notes Ton, Works Safety John, Song 283, 324 T., Activating the Ex-port Drive, 174 Edwards, W. H., New Develop-ments in Laboratory Equipment, 249 Faulds, James M., The British

ments in Laboratory Equipment, 249
Faulds, James M., The British Starch Industry, 342
Garner, T. L., Soaps in the Rubber Industry, 111
Howat, D. D., Flotation Concentration of Oxidised Minerals and Salts, 343
Lacy, E. Dacre, Welding Construction, 225; Levy, Leonard, and Donald W. West, Self-Luminous Materials and their Utilisation, 169; Light, L., Recent Advances in Textlie Finishing Agents, 49; Water Soluble Synthetic Resins, 333

Water Soluble Synthetic Resins, 333
Nordengren, Sven, and Hans Lehrecke, Possible Development of the Superphosphate Industry, 139
Ranshaw, G. S., Some Textile Developments of 1939, 51;
Reavell, Brian N., Maintenance of Evaporators and Driers, 79;
Rhodes, Henry T. F., Can Gaseous Fuel Replace Petrol?, 33
Sheldon, Norman, The British Laboratory Glassware Industry, 244; Special Correspondent, A., The Potato Products Industry, Part I, 267; Part II, 279; Part III, 291; Part VI, 301
Thomas, R. K., A New Emulsifier, 215
Wilson, Cecil L., Chemical Microscopy

215
Wilson, Cecil L., Chemical Micro-scopy Today, 239
Aviation Spirit, Ketones and the Production of, 85

Balance, A Useful, 334 Balkan Chemical Market, The, 145 Barytes Supply, Development of, 293

293 Benzol Recovery, 284 Bleaching Clays, Treatment of, 198 Boiler Plant Management, 184

BOOK REVIEWS-

Advancement of Science, The (No. 2, January, 1940) (The British

Book Reviews-continued.

Association), 130; Annual Reports on the Progress of Applied Chemistry, 1939 (Society of Chemical Industry), 282 Brewing; Secience and Practice (H. Lloyd Hind), 326; British Plastics Year Book, 1940, The, 199

(H. Lloyd Hind), 326; British Plastics Year Book, 1940, The, 199

Calculations of Quantitative Analysis (Carl J. Engelder), 326; Chaleurs Spécifiques, Les (Edmond Brun), 186; Chemicals of Commerce (F. D. Snedl and C. T. Snell), 338; Chemistry in the Service of Man, 5th edit. (Alexander Findlay), 103; Corrosion of Iron and Steel, The (J. C. Hudson), 199

Discovery of the Elements (Mary Elvira Weeks), 40

Electrical Trades Directory, The, 130; Electrocapillarity; The Chemistry and Physics of Electrodes and other Charged Surtaces, (J. A. V. Butler), 215

History of Chemistry, A (F. J. Moore), 40

M. E. Trout, Jr.), 338

Kingzett's Chemical Science, An (Professor W. H. Hatcher), 282; Introductor, College Chemistry (N. E. Gordon and W. E. Trout, Jr.), 338

Kingzett's Chemical Encyclopadia, 282

Laboratory Exercises in Inorganic Chemistry (J. F. Norris and K. L. Mark), 40; Lecture Demonstrations in General Chemistry (Professor Paul Arthur), 282

New Dictionary of Chemistry, A (Edited by Stephen Miall), 326;

Demonstrations in General Chemistry. 282
Artbury. 282
Artbury. 282
Artbury. 282
New Dictionary of Chemistry. A (Edited by Stephen Miall), 326;
Non-Ferrous Foundry Practice (J. Laing and R. T. Roffe), 326
Pocket Medical Dictionary, A (Lois Oakes), 103
Quantitative Spectrographic Aualysis with the Microphotometer (D. M. Smith), 186
Radioactivité et Transmutation des Atores (Théodore Kahan), 186; Records and Research in Engineering and Industrial Science (J. E. Holmstrom), 186; Review of Driers and Drying, A (E. F. Bennett), 326
Seience Front 1939 (F. Sherwood Tavlor), 103; Sulphated Oils and Allied Products (Donald Burton), 17
Tests, on the Liquofaction of

Allied Products (Donald Burton), 130
Tests on the Liquefaction of Canadisu Coals by Hydrogena-tion (T. E. Warren and K. W. Bowles), 326; Thermodynamics and Chemistry (Professor F. H. Macdouxall), 282; Thermodyna-nics for Chemical Eugineers (Professor Harold C. Weber), 326 Ultracentrifuge, The (Th. Svedberg and Kai O. Pedersen), 215

British Association of Chemists, 272 British Chemical and Dyestuffs Traders' Association, 271 British Chemical Plant Manufacture,

113
B.S.S. for Luminous Paint, 101
British Standards, New, 304
By-Product Ammonia, Recovery of, 323

Canadian Mineral Production, 100, Canadian Standard Specifications, 160

160
Carbonisation of Coal, 112
Carbonised Fuel, Alkali Activation of, 335
Casein and Lactose from Skim Milk,

258
Cement Clinker, 86
Centenaries of 1940, Chemical, 127
Cerium Content of Cerous Salts, 294
Changes of Address,
Chemical Club, The, 68
Chemical Engineering Group, 305

Chemical Equipment, Safe Metals for the Design of, 35 Chemical Matters in Parliament, 54, 67, 83, 118, 158, 187, 230, 251, 314, 325

325
Chemical Microscopy Today, Cecil L.
Wilson, 239
Chemical Society Meeting, 282
Chemicals in Germany, 38
Chemicals in South Africa, 4, 258
Chemist, The, and Electrical Insulation, 139
Chemistry, in Tropical Agriculture tion, 130 Chemistry in Tropical Agriculture,

Chemistry in Tropical acceleration of Calcium Oxide, 112
Chromic Dyes, Protection of, 115
Chromite Ore in India, 144
Coal Cleaning, 38
Colour Chemists at Manchester, 118
Commodity Insurance Scheme, 305

COMPANY MEETINGS-

Beechams Pills, Ltd., 307 British Alkaloids, Ltd., 320 British Drug Houses, 298

COMPANY NEWS-

British Drug Houses, 298

COMPANY NEWS—

Alchemy, Ltd., 276; Anchor Chemical Co., Ltd., The, 124; Anti-Attrition Metal Co., Ltd., 263; Aspro, Ltd., 124; Associated Portland Cement Manufacturers, Ltd., 166, 296; Astrin Brothers, Ltd., 166, 206; Astrin Brothers, Ltd., 30, 62, 152; Beechams Filis, Ltd., 30, 62, 152; Beechams Filis, Ltd., 288; Benn Brothers, Ltd., 43; Benzole and By-Products, Ltd., 165, 308; Berger, Lewis, ann Sons, Ltd., 263; Birmingham Colourt Co., Ltd., 194; Bleachers Association, The, 340; Blythe Colour Works, Ltd., 194, 296; Boake, Robberts, A., and Co., Ltd., 340; Boots aure Drug Co., Ltd., 340; Boots aure Drug Co., Ltd., 340; Boots aure Drug Co., Ltd., 166, 288; 330; Borax Consolidated, Ltd., 108; Bowner Grand Co., Ltd., 284; British Alkaloids, Sons Association Chem. 188; Bowner Grand Co., Ltd., 288; British Alkaloids, Ltd., 108, 298; British Alkaloids, Ltd., 128; British Carbo Ind. Ltd., 11; British Carbo Ind. Ltd., 128; British Carbo Ind. Ltd., 11; British Carbo Ind. Ltd., 128; British Drug Houses, Ltd., 293; British Drug Houses, Ltd., 293; British Drug Houses, Ltd., 293; British Luminescent Powder Laboratories, Ltd., 18, 18; British Ltd., The, 283; British Luminescent Powder Laboratories, Ltd., 136; British Match Corporation, Ltd., 17; British Corporatories, Ltd., 136; British Match Corporation, Ltd., 17; British Corporatories, Ltd., 136; British Match Corporation, Ltd., 17; Carbohydrol, Ltd., 136; Corporation and May, Ltd., 282; British Thermostat Co., Ltd., 136; Corporation and May, Ltd., 282; British Thermostat Co., Ltd., 148; Carbohydrol, Ltd., 152; Cellon, Ltd., 276; Clover Paint and Composition Co., Ltd., 130; Corporation, Ltd., 276; Clover Paint and Composition Co., Ltd., 136; Copeland, F. D., and Sons, Ltd., 282; Cooper McDongall and Robertson, Ltd., 136; Crosfields Oil and Cake Co., Ltd., 136; Corporation and May, Ltd., 282; Cooper McDongall and Robertson, Ltd., 136; Crosfields Oil and Cake Co., Ltd., 340

340
Dispensers, Ltd., 152; Dove Chemical Products, Ltd., 152
Eaglescliffe Chemical Co., Ltd., 276; Electrolytic Zinc Co., The, 94; English China Clays, Ltd., 94; English Velvet and Cord Dyers Association, The, 94; Eno Proprietaries, Ltd., 30; Evans, Sons, Lescher and Webb, Ltd., 166
Field, J. C. and J., Ltd., 308
Galloway, P. G., Ltd., 232; Gas Producers (Bellay), Ltd., 152; George, W. and J., Ltd., 62;

Company News-continued.

Goodlass Wall and Lead Industries, Ltd., 263; Griffiths Hughes, E., Ltd., 351; Griffiths Hughes, Proprietaries, Ltd., 308 Hampshire, F. W., and Co., Ltd., 254
Imperial Chemical Industries, Ltd., 229; Imperishable Paint and Varnish Co., Ltd., 319; International Paint and Compositions Co., Ltd., 124; International Toxin Products, Ltd., 351

351 Jetglaze, Ltd., 319 Knox, John (Stoke-on-Trent), Ltd., 319

dfern's Rubber Works, Ltd., 62; Rowan, Thomas, and Co., Ltd.,

Redfern's Rubber Works, Ltd., 62;
Rowan, Thomas, and Co., Ltd., 319
Sandor (Bradford), Ltd., 298;
Serum Laboratories, Ltd., 152;
Shanttang, Ltd., 62; Sherley, A. F., and Co., Ltd., 152; Shanttang, Ltd., 152; Shanttang, Ltd., 152; Shanttang, Ltd., 62; Sherley, A. F., and Co., Ltd., 152; Shanttang, Ltd., 152; Shanttang, Co., Ltd., The, 351; Stewarts and Lloyds, Ltd., 276; Synthetic Olls, Ltd., 232; Tharsis Sulphur and Copper Co., Ltd., The, 298; The John Thompson Engineering Co., Ltd., 232; Tharsis Sulphur and Copper Co., Ltd., The, 298; The John Thompson Engineering Co., Ltd., 203; Titanine, Ltd., 351; Unifloc Reagents, Ltd., 124; United Molasses Co., Ltd., The, 296; United Premier Oil and Cake Mills, Ltd., 298; United Steel Companies, Ltd., 124
Van den Berghs and Jurgens, Ltd., 30, 263; Veno Drug Co., Ltd., 152; Viscose Development Co., Ltd., 194
Wailes Dove Bitumastic Co., Ltd., 349; Worthington-Simpson, Ltd., 152; 194
Yeast-Vite, Ltd., 30, 152; Yorkshire Indigo, Scarlet and Colour Dyers, Ltd., 136
Let-Ozone (1938), Ltd., 194
Control Orders, New, 6, 24, 34, 67, 102, 129, 144, 173, 187, 212, 230, 238, 261, 272, 286, 294, 305, 346
Copper and Manganese Determination, 144

CORRESPONDENCE-

British Chemical Plant Manufacture (Hugh Griffiths), 129
Charcoal Manufacture in Portable Kilns (J. H. S. Watt), 21
Distribution of War Supply Contracts (Arthur J. Gillian), 229
Gentle Art of Not Purchasing Chemical Plant (I. Twigg), 156
"Muddling Through" (C. Machen), 229
Organised Supply of Metals (W. R. Blair), 18
Supply of Chemical Plant (J. W. Wright), 101; Support for Inventors (A. Moir), 54
Training Britain's Youth (George Beharrell), 85
Vermiculitie (M. Doyle), 216

Cuprammonium Solutions, 128 Customs Duties, South African, 38

D

De-Inking Waste Paper, 127 Dewaxing Waste Paper, 212 Dihydronaphthalene Polymers, 197 Diketene, 65 Disinfectant System, New, 112 Dispenser Cathode, The, 115

EDITORIAL-

Aggle as Oxidising Agent, 76:
Agriculture and the Chemical
Industry, 331; Apprentices, The
Selection of, 208; Atmospheric
Pollution, 332
Benzol Recovery, 289; Benzol,
Toxicity of, 32; British Chemical Plant Industry, The, 75;
"Buna," U.S.A. Interest in, 182
Calcium Carbide, British? 221;
Calcium Carbide in Holland,
208; Calcium Carbide in Holland,
208; Calcium Carbide in B.
Wales, 312; Canada's Chemical
Trade, 138; Canada's Chemical
Trade, 138; Canada's Chemical
Engineering and, 265; Carbon
Monoxide Detection, 110;
Catalysts for Medium Oils, 256;
Charcoal, Canadiant, 342; Charcoal Mannfacture in Portable
Kiins, 2; "The Chemical Age"
in War-Time, 223; Chemical Engineering and Canning, 265;
Charcoal, Canadiant, 342; Charcoal Mannfacture in Portable
Kiins, 2; "The Chemical Age"
in War-Time, 223; Chemical Engineering Courses,
96; Chemical Imports in Latin
America, 266; Chemical Library
for Widnes, 293; Chemical
Mannfacture in India, 278;
Chemical Plant Industry, The
British, 75; Chemical Publications, International, 332; Chemical Research in Glasgow, 266;
Chemicals and the New Invasion, 278; Chemicals and the New Invasion, 278; Chemicals Wanted;
311; Chemotherapy, 110;
Chivalry in Business, 110; Colloidal Rhenium, 224; Containers,
168; Control and the Trader, 95;
Cracking Process, The, 64
Detaocracy Acts, 277
Education or Training? 32;
Empire Mimeral Resources, 196;
End of an Era, The, 341; Export,
321; Export Groups, Formation
of, 298; Export of Chemicals to
Sweden, 48; Export of Chemicals to Turkey, 182; Export
Trade, 298
Fair Play for Traders, 32; Ferrous
Satts, Oxidation of, 65; Fertiliser Manniacture, 137; Flameproofing in Germany, 322;
Fluorescent and Lominous Pigments, 108; France, Substitute Fuel in,
65; France, Pater Raw Materials
Assured, 120; Funnigation of Insect Pests, 322

German Petrol Problem, The,
256; German Petrol Problem, The,
329; German Petrol Problem, The,
320; Glass, Heat Treatment of,
100; Good Lighting, 109

Holland, Calcium Carbide in, 208
Lehthyol from French Shale Deposits, 256; L.C.1 and the New Defence Act, 290; India, Chemical Manufacture in, 278; India's Chemical Imports, 126; Indiam and Germanium, 196; Industrial Waste, Avoiding, 16; Indiarial Waste, 125; Industry, A Further Call to, 322; Industry, A Further Call to, 322; Industry, in the Front Line, 341; International Chemical Publications, 332; Iron and Steel Corrosion, 195; Isophorone, 96; Italy's Supplies, 311
Japan's War Resources, 196; Japanese Heavy Industries, Increase in, 196

Supplies, SII Japan's War Resources, 196; Japanese Heavy Industries, Increase in, 196
Laboratory, The, 237; Latin America, Chemical Imports in, 266; Livesey Professor's Report, The, 96; Lord Stamp on Spending, 126
Majestic Effort, A, 238; Man-Power in Industry, 255, 266; Man-Power in Industry, 255, 266; Man-Power Problems, More, 299; McGowan, Lord, on Safety First, 300; Mercury Purification, 64; Microanalysis, 167; Munitions Drive, No Slacking in the, 311
National Savings Week, 300; Night Bindness in Germany, 16; Nylon Manufacture in Great Britain, 168

Oil Chemist in War and Industry, The, 207

Editorial-continued,

Palladium as a Catalyst, 2; Personal Factor, The, 181; Petrol Problem, The German, 256; Petrol Situation, German, 32; Petroleum Refining in France, 138; Petroleum Refining in France, 138; Petroleum Research, 64; Plastics for Engineering, 224; Plastics in Chemical Plant, 224; Plastics in Chemical Plant, 224; Platinum Metals in 1939, The, 76; Post-War Industrial Problems, 154; Prepareduces, 341
Rayon Cellulose from Resimous Wood, 182; Research Station, New, 48; Resolution, 2; Rubber 100, 182; Research Station, New, 48; Resolution, 2; Rubber 100, 182; Research Station, New, 48; Resolution, 2; Rubber 100, 182; Research Station, New, 48; Resolution, 2; Rubber 100, 182; Research Station, New, 48; Resolution, 2; Rubber 100, 182; Research Medowan on, 300; Scientific Advisers on the Nation's Food, 312; Scientific Training for Management, 63; Serap Metal in Chemical Industry, 278; Selenium, Boiling Point of, 138; Soap Trade Export Group, 224; Sodium Sulphide Production Processes, 278; Substitute Fuel in France, 65; Sweden, Export of Chemicals to, 48; Swedish Correspondent, From a, 300; Swiss Chemical Industry, 48
Taxation, The Case Against More, 153; Technical Workers, Release of, 154; Textile Chemistry, 47; Trades Disputes Act, 168; Trading and Common Sense, 126; Turkey, Export of Chemicals to, 182
Uranium. "Menace," The, 206; U.S.A. Interest in "Buna," 182; U.S.A. Synthetic Rubber Discovery, 332
Vanadium Oxides, Oxidation of CH₃OH with, 48; Vicious Spiral,

Vanadium Oxides, Oxidation of CH₃OH with, 48; Vicious Spiral, The, 32

The, 32
Wales, Calcium Carbide in South, 312; War Loan, The New, 138; Water Pollution Research, 16; Water Softening, Rase-Exchange, 16; Wholesale Price Index Numbers, 182; Widnes, Chemical Library for, 259; Women's Parliamentary Salvage Committee, 312; Work at War Speed, 200; Workshops, The Privilege of the, 311; Works Maintenance, 76; Works Organization, 15
X-Ray Crystal Analysis, 1
Jectrical Insulation, The Chemist

Electrical Insulation, The Chemist and, 130 Emulsifier, A New, R. K. Thomas, 215 Enquiries for Chemical Supplies, 216.

Emulsiner, A. N.W., R. K., Tromas, 215, 228
Enquiries for Chemical Supplies, 216, 228
E.P.T. Explained, 66
Ethyl Polychlorobenzene, 183
Ethylene Oxide and Cotton, 145
Evaporators and Driers, Maintenance of, Brian N. Reavell, 79
Excess Profits Tax, 40
Export Drive, Activating The, W. T. Day, 174
Export Groups Formed: Chemical Plant, 294; Chemical Traders, 315; Claina Clay, 338; Fine Chemical, 286; Graphite Products and Carbon Products, 294; Heavy Chemical, 286; Lead Oxide, 294; Pest Control Chemicals, 346; Pigment Colour Makers, 315; Plastics Groups, 322; Scientific Instruments and Appliances, 322; Sheet Lead, 294
Export Trade, The Drive for, 162
Exports from France, 315

F

Fats, Flow and Drop Points of, 337 F.B.I. and War Risks Insurance, 84 Fireproofing Wood, 99 Fire-Retarding Timber Treatment, 185

Flotation Concentration of Oxidised Minerals and Salts, D. D. Howat, 343
Flow and Drop Points of Fats, 337
Fluid Flow, Measurement of, 270
Fodder from Straw, 198
Foire de Paris, 102
Formic Acid, Furfuryl Alcohol and,
119
France, Pro-

119
France, Exports from, 315
French Patents, Some New, 304
Fuel, A Practicable Alternative, 82
Fuel Committees Appointed, 187
Furfuryl Alcohol and Formic Acid,

German Lubricating Oil, 84 Germany, Chemicals in, 38 Germany, Phosphate in, 80 Glass Containers, Permanent Labels for, 3 Glass for U.V. Estimation, 257 Glycerine from Bone Grease, 145

н

Tech

Hot Spraying of Shellac, 314 Hydrogen Fluoride in Industry, 117 Hydrogenation of Wood, 304

I.C.I., Ltd., Annual Report of, for 1939, 285 Impermeability of Papers, 346 Import and Export Regulations, 8, 19 Import Licences for Petroleum Products, 338 Incendiary Bombs, Resistance to, 143

Italy, Chemical Progress in, 313

Ketones and the Production of Aviation Spirit, 85 K.I.D., Exemption from, 82, 199

Labels, Permanent, for Glass Containers, 3
Laboratory Equipment, New Developments in, W. H. Edwards, 249
Laboratory Glassware, 68
Laboratory Glassware Industry, The British, Norman Sheldon, 244
Laboratory Planning, Modern Trends in, C. H. Eutcher, 243
Lac-Glycol Ethers, 37
Lac Research, 189
Lead-Mine Effluent, Westmorland, 228

Lead-Mine Effluent, Vertaing, 84
Lead-Mine Effluents, Treating, 84
Lead-Sodium Alloy, 21
Lead Tetraethyl Manufacture, 218
Lectures at Leeds, 83
Low-Temperature Drying of Food-stuffs, 269
Lubricating Oil, German, 84
Luminous Paint, B.S.S. for, 101

M

Magnesium Pheuvlate Production, Manchester and Liverpool S.C.I., 159 Mastic Asphalt Floor Covering, 161 Melamine, 53 Manchester and Liverpoor Sactor of Mastic Asphalt Floor Covering, 161 Melamine, 53 Mercury Figures for the U.S.A., 337 Mercury Figures for the U.S.A., 337 Mercury Purification, 336 Metals, Safe, for the Design of Chemical Equipment, 35 Mineralogical Society, The, 160 Ministry of Supply Contracts, 54 Molybdenum in Ferrons Materials, Determination of, 155 Morgan, Sir Gilbert, 87 Motor Oil Regeneration, 337

N

National Coal Resources, 160 Neohexane Production, 293 Non-Ferrous Metallic Ores, 160 Norway: Trading with the Enemy, 315 315 Notes from Works Safety Jottings, John Creevey, 227, 283, 324 Nylon Bristles for Toothbrushes, 312

OBITUARY-

Abel, James G., 216; Alves, Duncan Elliott, 144; Andrew, Arthur E., 8; Appleyard, Major Oliver, 68; Atkinson, Walter, 23; Auld, John, 251
Barr, William Jardine, 8; Bibby, Joseph, 161; Biddle, Wilfrid E., 251; Blackadder, Dr. William, 286; Blood, Maurice, 199; Rosch, Dr. Carl, 261; Boyd, William, 199; Bradbrook, Dr. Eric Charles Flower, 173; Brax, Professor Andrew Johannes, 199; Brunton, John, 119
Calder, William Alexander Skeen, 23; Carter, Geoffrey Cecil, 39; Casaburi, Signor Vittorio, 119; Clarkson, William, 229; Cochrane, Councillor Gordon, 68; Crossley, Major James Holden, 286; Crossley, Major James Holden, 266; Cruickshank, George Birrell, 23

Obituary-continued.

Dennis, Stanley Martyn, 8; Denny,
John, 199; Desgrez, Professor
Alexandre, 119; Dixon, Professor Stephen Mitchell, 199;
Drinkwater, Dr. T. W., 68
Fleming, William Gilmour, 315;
France, Harold, 119; Fulton,
John, 56
Gardner, Professor Walter Myers,
S; Garry, Oliver, 328; GinoriCouti, Senatore Prince Piero, 8;
Goodenough, Sir Francis, 39;
Green, Edward W., 231
Hamilton, Edward Lawrence, 103;
Harden, Sir Arthur, 338; Howey,
Jasper Oliver, 23
Johnson, H. Finnis, 189; Josephson, Walter Scott, 161
Kenworthy, William, 119; Kirsop,
Lt.-Col. Purvis A., 315; Kuight,
William, 120
Leanoyd, Leonard, 56
M Gowan, James, 315; M Kersie,
William Mitchell, 338; MacNeil,
Donald, 68; Macpherson, William
George, 23; W Rostie, John, 189;
Menzies, Alexander F., 39;
Mercer, C. A., 105; Morgans, Sir
Gilbert, Sr; Morgans, T. J., 161
Parsons, Col. Sir Herbert, 103;
Paton, David Stuart, 163;
Paton, David Stuart, 163;
Porritt, B. D., 68
Raggett, Charles, 261; Rawson,
Christopher, 315; Reese, Dr.
Charles Lee, 315; Red, John
Neil, 315; Rhodes, Thomas, 119;
Roberts, Arthur R., 189;
Robson, Mark, 119; Roelofsen,
Dr. John A., 68; Rogers, John
V., 144
Shutt, Frank Thomas, 23; Smith,
Francis Harold, 251; Smith,
Frederick A., 173; Smith, William
Copeland, 144
Talman, John, 144; Thomas, Hugh
C., 305; Thorpe, Sir Jocelyn
Harry, 216; Wilkins, Harold
Alban, 305; Wilson, Charles, 216
Gle Purification Method, New, 66
Iverseas Trade in May, 338

Oil Purification Method, New, 66 Overseas Trade in May, 338

P

Papers, Impermeability of, 346

PERSONAL-

Papers, Impermeability of, 346

PERSONAL—

a Brassard, H., 229; Alkins, Dr. W. E., 216; Andrade, Professor E. N. da C., 8; Andrews, H., 103; Appleton, Pr. E. V., 8, 119, 261; Ardern, T. St., 272; Astbury, W. T., 173

Bache, H. F., 251; Baer, F., 56; Bagley, Stanley B., 216; Bailey, G. L. 216; Bailleu, Sir Clive, 86; Balln, F. W., 229; Bannister, Professor C. O., 173; Barcroft, Sir Joseph, 8; Barret, Dr. R. M., 8; Bartett, Professor F. C., 119; Bashforth, G. R., 229; Baxter, B. P., 173; Beale, R. S., 86; Bedingfield, Arthur L., 229; Baxter, B. P., 173; Beale, R. S., 86; Bedingfield, Arthur L., 229; Beyen, Dr. Johan Willem, 212; Beyen, Dr. Johan Willem, 115; Blabbracki, Professor Czesłav, 68; Billington, Edward E., 119; Blackburn, Professor V. H., 119; Blackburn, Professor V. H., 119; Blackburn, Professor V. H., 119; Blackburn, Professor W. L., 8, 119; Brarby, Captain F. C., 216; Braga, L. F., 286; Bragg, Professor W. L., 8, 119; Brarley, G., 173; Bridge, H., 129; Briers, Dr. F., 305; Briggs, E. L., 173; Broadbent, B. L., 261; Brotherton, Charles Ratcliffe, 251; Brown, John, 86; Bryan, Professor A. M., 251; Bryan, S., 129; Buist, Lt.-Com. C., 251; Brown, John, 86; Bryan, Professor A. M., 251; Bryan, S., 129; Buist, Lt.-Com. C., 251; Chappell, N., 298; Carlweight, Professor S. and Professor P. G., 173; Bridge, L., 173; Broadbent, B. L., 261; Brotherton, Charles Ratcliffe, 251; Brown, John, 86; Bryan, Professor A. M., 251; Bryan, S., 129; Buist, Lt.-Com. C., 251; Brange, L., 173; Broadbent, B. L., 261; Brotherton, Charles Ratcliffe, 251; Brown, John, 86; Bryan, Professor A. M., 251; Bryan, S., 129; Buist, Lt.-Com. C., 251; Chappell, N., 298; Carlweight, R. P., 68; Charles, L.-General E. M. C., 8; Clarke, H. W., 294; Clement, W. L., 251; Clarped, H. W., 294; Clement, W. L., 261; Clifford, E. H., 272; Cockeroft, Professor J. D., 8; Cook, Pro-

Pers. -1-continued,

Fessor G., 173; Cooper, F. D'Arcy, 86; Cowap, Captain A. Hayton, 251, 294; Cowie, G. A., 161; Craig, John, 216; Craven, R. V., 286; Crole-Rees, H. B., 272; Cronshaw, Dr. C. J. T., 315; Crossley, J. H., 39; Crute, N. R.,

Dalley, C., 39; Dalrymple, G., 261; Darwin, Dr. C. G., 119; Dautry, Monsieur Raoul, 39; Davidson, Major-General A. E., 8; Daysh, A. D., 129; Deacon, W., 328; Denholm, John, 144; Desch, Dr. C. H., 39, 103, 119; Devereux, W. C., 294; Diamond, C., 251; Dodd, A. H., 305; Borey, Dr. S. F., 216; Dorr, John van Nostrand, 189; Duchemin, René, 144; Dudley, Lord, 173; Duncan, Sir Andrew Rae, 23, 86; Du Pont, Lammot, 38; Du Pont, Pierre S., 388; Durrance, G. A., 251; Dyer, Captain Samuel, 216 Edwards, W. A. M., 173; Egerton, Professor A. C., 119; Evans, B. J. R., 251; Evans, Dr. William Lloyd, 23
Faulkner, Sir Alfred, 294; Fergusson, J. L., 39; Fergusson, I. V. L., 261; Findlay, Professor A. C., 144; Findley, A. E., 173; Fisher, Edwin, 86; Fleck, Dr. Alexander, 294; Ferer, Edwin, 86; Fleck, Dr. Alexander, 294; Forney, R. L. 8; Forsen, Professor Lennart, 261; Fowell, Dr. G. E., 261; Freeman, J. A., 229; Fry, John, 216 Gant, T. H., 189; Gates, A. R., 119; Gepp, Sir Herbert, 272; Gibson, G. P., 173; Glass, J. V. S., 346; Goodall, F. L., 161; Goodew, C. F., 173; Gordon, Lord Dudley, 216; Gough, H. J., 8; Greenwood, Professor M., 119; Gregory, Dr. Edwin, 305; Grundy, Frances, 103; Gueterbock, Colonel P. G. J., 216; Guy, Dr. H. L., 8, 119; Harnuer, W. T. V., 173; Hartley, Sir Hardud, 8; Heilbron, Professor D., 210; Hardman, E., 251; Harington, Professor G. R., 119; Harnuer, W. T. V., 173; Hartley, Sir Hardud, 8; Heilbron, Professor A. V., 8, 86, 119, 129; Hidditch, T. P., 173; Hill, Professor A. V., 8, 86, 119, 129; Hidditch, T. P., 173; Hill, Professor A. V., 8, 86, 119, 129; Hidditch, T. P., 173; Hill, Professor A. V., 8, 86, 119, 129; Hidditch, T. P., 173; Hill, Professor A. V., 8, 86, 119, 129; Hidditch, T. P., 173; Hill, Professor A. V., 8, 86, 119, 129; Hidditch, T. P., 173; Hill, Professor A. V., 8, 86, 119, 129; Hidditch, T. P., 173; Hill, Professor A. V., 8, 86, 119, 129; Hidditch, T. P., 173; Hill, Professor A. V., 8, 86, 119, 129; Hidditch, T. P., 173; Hill, Professor A. V., 8, 86, 119, 129; Hidditch, T. P., 173; Hil

Personal-continued.

Mackinlay, W. M., 23;
Mackinlay, W. M., 23;
Mackinlay, W. M., 23;
Mackinlay, W. M., Mackinl, H. W., 129; Markham, S. F.,
173; Markwell, W. A. N., 56;
Marlio, Monsieur, 144; Marshall,
Sir Guy, 119; Martin, William,
119; Melchett, Lord, 228, 346;
Melville, Dr. Harry Work, 129,
124, 338; Methley, B. W., 305;
Midgley, Thomas, Jr., 272;
Mitchell, J. S., 286; Mitman,
F. S., 294; Moreton, John, 119;
Mortimer, A., 261, 294; Morton,
Dr. R. A., 119; Muir, Rowland
Huntly, 365
Nicholson, J. G., 229
O'Haggn, L. F., 86
Painvin, Monsieur, 144; Palmer,
W., 86; Parkin, G., 365; Peed, Patrick
R. E., 251; Percy, C. P., 23;
Petter, Captain Richard C., 39;
Phillips, Sir Frederick, Se;
Phillips, Sir Frederick, Se;
Phillips, Dr. William A., 8;
Pickles, Alan E., 39; Pickles, Alan E., 30; Pickles, J., 20; Pickles, J., 30; Pickles, J., 3

Sylvester, W. G., 86

Tasker, H. S., 8; Taylor, Professor G. I., 8; Taylor, Lt.-General-Sir Maurice, 8; Tennant, W. J., 39; Thomas, H. H., 173; Thompson, William, 305; Thomson, Dr. A. K. G., 199; Thorne, W. C., 161; Tizard, Sir Henry T., 8; Toone, Miss Mary Oscroft, 216; Topley, Professor W. W. C., 199; Towers, J. S., 173; Trafford, John, 229; Turner, Dr. A. J., 294; Turner, P. 9fessor W. E. S., 229

Underwood, Dr. A. J. V., 199 Vachon, Mgr. Alexandre, 23; Van den Bergh, Sidney James, 315; Vickers, Edward Jervis, 216; Voss, Otto C., 229

Personal—continued.

Walker, W. P., S; Wallbank,
A. W., 251; Wardle, Sub-Lt.
Geoffrey, 56, 68, Wardle, SubLieut. Gilbert. 272; Warren,
Professor F. L., 173; Wetbull,
Professor Waloddi, 261; Weir, Sir
Cecil, 86; Wells, F. G., 328;
Wettesen, H., 199; WhartonDavies, E. H., 119; Whiffen, S.,
261; Whitby, Dr. G. S., 251;
Whitchouse, F. W., 286; Williams,
229; Williams, E. T., 173;
Williams, W. D., 119; Williams,
W. J., 261; Wilson, Arthur, S;
Woolley, W. E., 315; Work, Dr.
Lincoln T., 315; Wright, Colonel
Sir W. Charles, 23
Zulver, C., 365
etrol, Can Gascous Fuel Replace?

Petrol, Can Gaseous Fuel Replace? Henry T. F. Rhodes, 33 retrol Resisting Paint, 86 Petroleum Products, Import Licences

Remarkable Announcement, A., 189 Resins, Water-Soluble Synthetic, Lquis Light, 333 River-Borne Sands of India, 101 Royal Society Meeting, 160 Rubber Industry, Soaps in the, T. Lz Garner, 111 Russian Apatite for Germany, 259

S

Safety Posters, 325 Scientific Appliances, Recent Advances in, 246 Scientific Instruments, Naming of, 294 Scientific Workers, 21 Scientific Workers, Fair Treatment of, 83 Scotland, Industrial 3 5 5 6

Scientific Workers, Fair Treatment of, 83 (1988). Seedland, Industrial Safety in, 230 Seedland, Industrial Safety in, 230 Seedland, Industrial Safety Seedland Levy and Levy and Levy and Levy and Levy Seedland W. West, 169 Sex Hormones, Synthetic, 186 Shellac, Hot Spraying of, 314 Shellac Research Bureau, 22 Silica Gel as Moisture Preventer, 20

Silicosis, To Stop, Samuel Cyril Blacktin, 97

Blacktin, 97 Sunding Gas as Fuel, 128 Sundil Manufacturers' Association, 228, 272 Soap and Grease Recovery, 37 Soap Suppliers Admit Error, 337

Soaps in the Rubber Industry, T. L. Garner, 111
Society of Public Analysts and Other Analytical Chemists, 159
Sodium Phosphates as Inhibitors, 345
Soath Africa, Chemicals in, 4, 258
South African Customs Duties, 38
Soviet Mineral Wealth, 293
Soya Wool, 24
Spekker Absorptiometer, The, 245
Spending and Saving, 176
Starch Industry, The British, James M. Faulds, 342
State as Trader, The, 36
Sulphica Recovery, 53
Sulphonated Oils and Fatty Alcohols, George S. Collingridge, 17
Supply Area Organisations, New, 40
Synthetic Rubbers, A Note on, 303

T

Eax Allowance for Advertising Expenditure, 214
Temperature-Indicating Colours, 257
Textile Developments of 1939, Some,
G. S. Ranslaw, 51
Textile Finishing Agents, Recent,
Advances in, L. Light, 49
Thermoneters and Petri Dishes, 180
Thermonistic, A. New, 39
Thiodiglycol, 128
Tin Research, Progress in, 158
Trading with the Enemy, 86, 101
Training Britain's Youth, 21
Treatment of Cooling Water, 39
Tropical Agriculture, Chemistry in, 160

U

U.S. Bureau of Mines, 22 U.V. Estimation, Glass for, 257

٧

Vermiculite, New Use for, 115 Vitreous Enamelling, 214

W

Water Jet Pumps, 38
Water Softeners, Comparative Value of, 22
Water-Soluble Synthetic Resins, Louis Light, 333
Water Supply Reserveh, 184
Welding Construction, E. Daere Lacy, 255 Lacy, 225 Westmorland Lead-Mine Effluent, 228

WILLS-

Brown, Dr. Henry C., 199 Cruickshank, G. B., 199 Lamb, Morris Charles, 144 Merritt, W. F., 56 Norton, George Pepler, 39 Paton, D. S., 199; Perry, David, 144 Sir Franct, 199, Simpone Sanger, Sir Ernest, 199; Simmons, Sir Percy Coleman, 103 Wood, Arsenic Salts for Preserving, 347 Wood Cellulose, Purified, 294 Wood in the Chemical Industry, 327 Works Maintenance Note-Book, From a, 81

INDEX TO METALLURGICAL SECTION

Α

Ablett Prize, The, 2 Alloy Steels of High Plastic Strength, 21 Alumina Films, 26 Alumina from Phonolite, 16 Aluminium, The Demand for, 3 Australia, Zinc and Lead from, 7 Australian Wolfram, 12

B

British Aluminium Works, Extensions to, 17 British Steel Supplies, 21 Brucite, Magnesia from Canadian, 12 Bureau of Analysed Samples, 16

Canada's Mineral Production in 1939, 2 Carbon Arc Welding Improvements, Carbonyl Process for Nickel, 12 Centrifugal Steel Tubes, 17 Coke Ovens in Scottish Works, 17 Commercial Copper, New Classification of, 3

tion of, 3
Copper in Germany, Scarcity of,
D. D. Howat, 5'
Copper and Zine in Germany,
Scarcity of (A.G.A.), 22
Copper, New Type of, 26
Copper Shortage Overcome in India,
24 24 Cored Solder, British-Made, 24 Cyanide Plant for Gold-Bearing Pyrites, 20

D

Dolomite and the Steel Industry, 3

E

Electric Pig-Iron Furnaces in War Time, C. C. Downig, 1 Electrodeposition of Rhodium, 20

Electrodepositors' Technical Society, 16

F

Far East Iron Output, Expansion of, Finnish Ores, Germany and, 26 Foamed Blast Furnace Slag, 3

G

Germany and Finnish Ores, 26 Germany, Scarcity of Copper in, D. D, Howat, 5 Germany, Scarcity of Zinc in, D. D. Howat, 13

H

Hard-Facing Tools and Dies, 11 High Silicon Irons, A Survey of the, B. N. Reavell, 19

1

India, Copper Shortage Overcome in, Institute of Metals, Officers of, for 1940, 6 Insulation of Open Hearth Furnace Roofs, 2 Iron Output, Expansion of Far East, 21

M

Magnesia from Canadian Brucite, 12 Manganese-Aluminium Alloys, 22 Manganese Ore in the U.S.A., 8 Metal Are Welding in Mild Steel, 26 Metallurgical Patents, Some Recent, Metallurgy in Ancient Britain, 7 Metal Sheets for Current Rectifying,

N

Nickel and Copper Recovery in the U.S.A., 17

Dringer Medel

Nickel Carbonyl for Nickel Metal, 8 Rhodium, Electrodeposition of, 20 Titanium, Production of Pure, 11 Nickel Electrolysis, 15

S

U

W

Welding Cast Iron to Bronze, 26 Welding Galvanised Iron, H. Seymour, 25 West Australian Iron Ore, 7 Williams Prize, The, 2 Wolfram, Australian, 12

Uganda Ores, 2 U.S.A., Manganese Ore in the, 8 U.S.A., Nickel and Copper Recovery in the, 17

Z Zinc in Germany, Scarcity of, D. D. Howat, 13 Zinc and Lead from Australia, 7 Zinc in Acids, Solubility of, 21

P

Paint for Steelwork, 18 Phonolite, Alumina from, 16 Pig-Iron Furnaces in War Time, Electric, C. C. Downie, 1 Pig-Iron Manufacture in America, 9 Pretoria Steelworks Extension, 4

R

Refractory Coatings, 2

Scrap Metal Campaign, 12 Sheffield and Essen, 7 Slag, Foamed Blast Furnace, 3 Spectrography, Applied, 7 Steel Supplies, British, 21 Steel Tubes for Water Well Casing, 8

T

Tin, New Uses for, 21

Vermiculite Recovery in S. Africa, 12



